

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference FGPD04-004	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR2004/001615	International filing date (day/month/year) 01 JULY 2004 (01.07.2004)	(Earliest) Priority Date (day/month/year) 05 JULY 2003 (05.07.2003)
Applicant LG INNOTEK CO., LTD et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

28/02 2005 LUN 01:35 [N° COM. 7286] 034

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/001615

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H02K 7/065

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

D<sup>0</sup>C7 H02K, H04R, H04BDocumentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975  
Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 370639 B1 (SAMSUNG ELECTRO-MECHANICS CO., LTD.) 5 Feb. 2003 Abstract, Claims 1-14, Figs. 2-7	1-10, 13-16
Y	KR 2003-15814 A (SAMSUNG ELECTRO-MECHANICS CO., LTD.) 25 Feb. 2003 Abstract, Claims 1-12, Figs. 1-16	17-28
A	JP 2002-263578 A (SAMSUNG ELECTRO-MECHANICS CO., LTD.) 17 Sep. 2002 See entire document	1-28
A	US 20030062978 A1 (SHIOH ENGINEERING CO., LTD.) 3 Apr. 2003 See entire document	1-28

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
16 OCTOBER 2004 (16.10.2004)Date of mailing of the international search report  
18 OCTOBER 2004 (18.10.2004)

Name and mailing address of the ISA/KR

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28/02 2005 LUN 01:35 [N° COM. 7286] @ 035



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INTERNATIONAL SEARCH REPORT  
Information on patent family membersInternational application No.  
PCT/KR2004/001615

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 370639 B1	5 Feb. 2003	FI 20011324 A DE 10129869 A1 US 2002076068 A JP 2002218591 A2	20 Jun. 2002 11 Jul. 2002 20 Jun. 2002 2 Aug. 2002
KR 2003-15814 A	25 Feb. 2003	FI 20020283 A DE 10206129 A US 2003036364 A JP 2003053265 A	12 Feb. 2002 13 Mar. 2003 20 Feb. 2003 25 Feb. 2003
JP 2002-263578 A	17 Sep. 2002	FI 20011411 A DE 10130910 A1 US 6466682 B JP 2002263578 A2	3 Sep. 2002 19 Sep. 2002 15 Oct. 2002 17 Sep. 2002
US 20030062978 A	3 Apr. 2003	None	

28/02 2005 LUN 01:35 [N° COM. 7286] 036

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